

MP Biomedicals, LLC29525 Fountain Parkway
Solon, Ohio 44139Telephone: 440/337-1200
Toll Free: 800/854-0530

Certificate of Analysis

Product Description: L-Norvaline
Catalog Number: 102495
Lot: QR13849**Formula:** $C_5H_{11}NO_2$
CAS #: 6600-40-4
Physical Description: White Crystalline Powder**Formula Weight:** 117.15
Storage: 15-30°C

Test	Specification	Result
Identity Test	Passes	Pass
FTIR	Conforms to Standard	Conforms to Standard
Optical Rotation (c= 2, 6N HCl)	+23 ± 5°	+22.9°

Loss on Drying: 0.01%
Residue on Ignition (As Sulfate): 0.00%
Chloride: <0.09%
Sulfate: <0.06%
Heavy Metals (as Pb): <10 ppm
Iron: <10 ppm
Ammonium Salts: <0.02%
Arsenic: <1 ppm,
Other Amino Acids: Not Detected by TLC
Assay: 100.4%
Recommended Retest Date: 04/19/2020



04/26/2017 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

This is an electronically generated document
<mailto:biotech@mpbio.com>
<http://www.mpbio.com>

Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site
Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)